

IN THE CLAIMS

Please make the following amendments to the claims as set out in the claim listing below:

1. (Currently Amended) An image processing apparatus, comprising:

a playback section for playing back image data in successive frames;

a transmission section for transmitting the successive frames of the played back image data to a reception apparatus through a predetermined transmission line;

said reception apparatus having a ~~one-frame~~ temporary store to temporarily store one frame of the successive frames of the played back image data transmitted thereto, the stored frame being replaced by a following frame of the successive frames that are received; and

a control section for updating the frame stored in said temporary store with new successive frames that are received by said reception apparatus, said control section controlling, when an instruction to temporarily stop the playback of the image data is received, said playback section and said transmission section to stop the playback and the transmission of the image data, respectively, and further controlling said transmission section to transmit a message representing that the playback of the image data is temporarily stopped to said reception apparatus through said transmission line, wherein the temporary store stores only one frame of the successive frames while playback of the image data is temporarily stopped and no longer is updated with new frames and the image data of the one frame last stored in said ~~one-frame~~ temporary store is repetitively read out while said playback and transmission sections are stopped,

wherein the control section establishes on said transmission line, a first channel for transmission of said image data and a second channel for transmission of said message.

2. (Original) An image processing apparatus according to claim 1, wherein, when an instruction to cancel the temporary stop is received, said control section controls said playback section and said transmission section to resume the playback and the transmission of the image data, respectively, and further controls said transmission section to transmit a message representing that the playback of the image data is resumed to said reception apparatus through said transmission line.

3. (Original) An image processing apparatus according to claim 1, wherein said transmission section transmits the image data also to an additional reception apparatus or apparatuses through said transmission line.

4. (Previously Presented) An image processing apparatus according to claim 1, wherein said transmission line can be a wired transmission medium which complies with the IEEE 1394 standard or a wireless transmission medium.

5. (Currently Amended) An image processing method, comprising:

a playback step of playing back image data in successive frames;

a transmission step of transmitting the successive frames of the played back image data to a reception apparatus through a predetermined transmission line;

a temporary storage step of temporarily storing in a ~~one-frame memory~~ temporary store one frame of the successive frames of the played back image data transmitted to the reception apparatus, the stored frame being replaced by a following frame of the successive frames that are received;

a control step of updating the frame stored in said temporary store with new successive frames that are received, and of stopping, when an instruction to temporarily stop the playback of the image data is issued, the playback of the image data by the playback step

and the transmission of the image data by the image transmission step so that the temporary store stores only one frame of the successive frames while playback of the image data is temporarily stopped and no longer is updated with new frames; and

a message transmission step of transmitting a message representing that the playback of the image data is temporarily stopped to said reception apparatus through said transmission line, and

a repetitive read out step of repetitively reading out the one frame of image data last temporarily stored at the reception apparatus while the playback and transmission of the image data are temporarily stopped;

wherein the control step establishes on said transmission line, a first channel for transmission of said image data and a second channel for transmission of said message.

6. (Currently Amended) A computer-readable recording medium on which a program-to-be executed by a computer is recorded, the program comprising:

a playback step of playing back image data in successive frames;

a transmission step of transmitting the successive frames of the played back image data to a reception apparatus through a predetermined transmission line;

a temporary storage step of temporarily storing in a one-frame memory temporary store one frame of the successive frames of the played back image data transmitted to the reception apparatus, the stored frame being replaced by a following frame of the successive frames that are received;

a control step of updating the frame stored in said temporary store with new successive frames that are received, and of stopping, when an instruction to temporarily stop

the playback of the image data is issued, the playback of the image data by the playback step and the transmission of the image data by the image transmission step so that the temporary store stores only one frame of the successive frames while playback of the image data is temporarily stopped and no longer is updated with new frames; and

a message transmission step of transmitting a message representing that the playback of the image data is temporarily stopped to said reception apparatus through said transmission line, and

a repetitive read out step of repetitively reading out the one frame of image data last temporarily stored at the reception apparatus while the playback and transmission of the image data are temporarily stopped;

wherein the control step establishes on said transmission line, a first channel for transmission of said image data and a second channel for transmission of said message.

7. (Currently Amended) An image processing apparatus, comprising:

a reception section for receiving successive frames of played back image data transmitted thereto from a transmission apparatus through a predetermined transmission line;

a one frame-storage section having a storage capacity of one frame for temporarily storing one frame of the successive frames of the played back image data received by said reception section, the stored frame being replaced by a following frame of the successive frames that are received;

a display apparatus to display the image data temporarily stored in said storage section; and

a control section for updating the frame stored in said storage section with new successive frames that are received by said reception section, said control section controlling, when a message representing that playback of the image data is temporarily stopped is received through said transmission line, said storage section to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein, and said control section controlling said display apparatus to repetitively read out and display the image data of the one frame last temporarily stored in said one-frame storage section,

wherein said image data is received on a first channel of said transmission line and said message is received on a second channel of said transmission line.

8. (Previously Presented) An image processing apparatus according to claim 7, wherein, when a message representing that the playback of the image data is resumed is received through said transmission line, said control section controls said display section to display the image data received thereafter by said reception section, and

wherein said control section supervises the second channel for delivery of said message.

9. (Original) An image processing apparatus according to claim 7, wherein said storage section has a storage capacity for one screen.

10. (Previously Presented) An image processing apparatus according to claim 7, wherein said transmission line can be a wired transmission medium which complies with the IEEE 1394 standard or a wireless transmission medium.

11. (Currently Amended) An image processing method, comprising:

a reception step of receiving successive frames of played back image data transmitted thereto from a transmission apparatus through a predetermined transmission line;

a storage step of temporarily storing in a one-frame-memory having a storage capacity of one frame for temporarily storing one frame of the successive frames of the played back image data received by the reception step, the stored frame being replaced by a following frame of the successive frames that are received;

a display step of displaying the temporarily stored image data; and

a control step of updating the frame stored in said memory with new successive frames that are received, and of controlling, when a message representing that playback of the image data is temporarily stopped is received through said transmission line, said memory to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein, and controlling said display step to repetitively read out and display the last temporarily stored image data of one frame,

wherein said image data is received on a first channel of said transmission line and said message is received on a second channel of said transmission line.

12. (Currently Amended) A computer-readable recording medium on which a program to be executed by a computer is recorded, the program comprising:

a reception step of receiving successive frames of played back image data transmitted thereto from a transmission apparatus through a predetermined transmission line;

a storage step of temporarily storing in a one-frame-memory having a storage capacity of one frame for temporarily storing one frame of the successive frames of the

played back image data received by the reception step, the stored frame being replaced by a following frame of the successive frames that are received;
a display step of displaying the temporarily stored image data; and
a control step of updating the frame stored in said memory with new successive frames that are received, and of controlling, when a message representing that playback of the image data is temporarily stopped is received through said transmission line, said memory to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein, and controlling said display step to repetitively read out and display the one frame of temporarily stored image data last stored,

wherein said image data is received on a first channel of said transmission line and said message is received on a second channel of said transmission line.

13. (Currently Amended) An image processing apparatus, comprising:

a transmission apparatus for playing back successive frames of image data and transmitting the successive frames of image data through a predetermined transmission line; and

a reception apparatus for receiving the successive frames of image data transmitted thereto from said transmission apparatus through said transmission line;

said transmission apparatus including a playback section for playing back image data, a transmission section for transmitting the played back image data to said reception apparatus through said predetermined transmission line, and a control section for controlling, when an instruction to temporarily stop the playback of the image data is received, said playback section and said transmission section to stop the playback and the transmission of the image

data, respectively, and further controlling said transmission section to transmit a message representing that the playback of the image data is temporarily stopped to said reception apparatus through said transmission line,

wherein the control section establishes on said transmission line, a first channel for transmission of said image data and a second channel for transmission of said message;

said reception apparatus including a reception section for receiving successive frames of the played back image data transmitted thereto from said transmission apparatus through said predetermined transmission line, a ~~one-frame~~ storage section having storage capacity of one frame for temporarily storing one frame of the successive frames of the played back image data received by said reception section, the stored frame being replaced by a following frame of the successive frames that are received, and a control section for updating the frame stored in said storage section with new successive frames that are received by said reception section, wherein said storage section stores only one frame of the successive frames while playback of the image data is temporarily stopped and no longer updates the frame stored therein, said control section controlling a display apparatus to display the image data temporarily stored in said storage section and controlling, when a message representing that playback of the image data is temporarily stopped is received through said transmission line, said display apparatus to repetitively read out and display the one frame of image data last temporarily stored in said storage section.

14. (Currently Amended) An image processing apparatus, comprising:

a playback section for playing back image data;

a transmission section for transmitting successive frames of the played back image data to a reception apparatus through a predetermined network;

said reception apparatus having a ~~one~~ frame temporary store to temporarily store one frame of the successive frames of the played back image data transmitted thereto, the stored frame being replaced by a following frame of the successive frames that are received; and a control section for updating the frame stored in said temporary store with new successive frames that are received by said reception apparatus, said control section controlling, when a message representing that an instruction to temporarily stop the playback of the image data is issued through said network, said transmission section to stop the transmission of the image data, said control section controlling the temporary store to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein with new successive frames and for controlling said reception apparatus to repetitively read out from said one-frame temporary store the last temporarily stored image data of one frame while said playback of said image data is stopped,

wherein the control section establishes a first channel on a predetermined transmission line for transmission of said image data and a second channel on said transmission line for transmission of said message.

15. (Original) An image processing apparatus according to claim 14, wherein, when a message representing that an instruction to cancel the temporary stop is received through said network, said control section controls said transmission section to resume the transmission of the image data.

16. (Previously Presented) An image processing apparatus according to claim 14, wherein said network can be a wired network which complies with the IEEE 1394 standard or a wireless network.

17. (Original) An image processing apparatus according to claim 14, wherein said playback section plays back the image data and said transmission section transmits the image data in response to a request from each of said reception apparatus and an additional reception apparatus or apparatuses.

18. (Currently Amended) An image processing method, comprising:

- a playback step of playing back image data;
- a transmission step of transmitting successive frames of the played back image data to a reception apparatus through a predetermined network;
- a storage step of temporarily storing in a ~~one frame~~—memory one frame of the successive frames of the played back image data that is transmitted to said reception apparatus, the stored frame being replaced by a following frame of the successive frames that are received; and
- a control step of updating the frame stored in said memory with new successive frames that are received by said reception section, said control step stopping, when a message representing that an instruction to temporarily stop the playback of the image data is issued through said network, the transmission of the image data by the transmission step, said control step controlling the memory to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein with a new successive frame and for causing the one frame of temporarily stored

image data last stored to be repetitively read out while the playback of said image data is stopped,

wherein the control step establishes a first channel on a predetermined transmission line for transmission of said image data and a second channel on said transmission line for transmission of said message.

19. (Currently Amended) A computer-readable recording medium on which a program ~~to be~~ executed by a computer is recorded, the program comprising:

a playback step of playing back image data;
a transmission step of transmitting successive frames of the played back image data to a reception apparatus through a predetermined network;

a storage step of temporarily storing in a ~~one frame~~ memory one frame of the successive frames of the played back image data that is transmitted to said reception apparatus, the stored frame being replaced by a following frame of the successive frames that are received; and

a control step of updating the frame stored in said memory with new successive frames that are received by said reception section, said control step stopping, when a message representing that an instruction to temporarily stop the playback of the image data is issued through said network, the transmission of the image data by the transmission step, said control step controlling the memory to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein with a new successive frame and for causing the one frame of temporarily stored

image data last stored to be repetitively read out while the playback of said image data is stopped,

wherein the control step establishes a first channel on a predetermined transmission line for transmission of said image data and a second channel on said transmission line for transmission of said message.

20. (Currently Amended) An image processing apparatus, comprising:

a reception section for receiving successive frames of played back image data transmitted thereto from a transmission apparatus through a predetermined network;

a ~~one frame~~ storage section having a storage capacity for temporarily storing one frame of the successive frames of the played back image data received by said reception section, the stored frame being replaced by a following frame of the successive frames that are received such that the frame stored in said storage section is updated with new successive frames that are received by said reception section;

a display apparatus for displaying the image data received by said reception section and temporarily stored in said storage section;

a transmission section for transmitting, when an instruction to temporarily stop the playback of the image data is received, a message representing the reception of the instruction to said transmission apparatus through said network; and

a display control section for controlling, when the instruction to temporarily stop the playback of the image data is received, the storage section such that said storage section stores only one frame of the successive frames while playback of the image data is temporarily stopped and no longer updates the frame stored therein, and for controlling said

display apparatus to repetitively read out and display the image data of one frame last temporarily stored in said one-frame-storage section,

wherein said image data is received on a first channel of a predetermined transmission line and said instruction is received on a second channel of said transmission line.

21. (Original) An image processing apparatus according to claim 20, wherein, when an instruction to resume the playback of the image data is received, said transmission section transmits a message representing that the instruction to resume the playback of the image data is received to said transmission apparatus through said network, and said display control section controls said display apparatus to display the image data received thereafter by said reception section.

22. (Original) An image processing apparatus according to claim 20, wherein said storage section has a storage capacity at least for one screen.

23. (Previously Presented) An image processing apparatus according to claim 20, wherein said network can be a wired network which complies with the IEEE 1394 standard or a wireless network.

24. (Currently Amended) An image processing method, comprising:

a reception step of receiving successive frames of played back image data transmitted thereto from a transmission apparatus through a predetermined network;

a storage step of temporarily storing one frame of the successive frames of the played back image data received by the reception step into a ~~one-frame~~ storage section having a storage capacity of one frame of image data, the stored frame being replaced by a following

frame of the successive frames that are received such that the frame stored in said storage section is updated with new successive frames that are received by said reception step;

a display step of displaying the received and temporarily stored image data;

a transmission step of transmitting, when an instruction to temporarily stop the playback of the image data is received, a message representing the reception of the instruction to said transmission apparatus through said network; and

a display control step of causing, when the instruction to temporarily stop the playback of the image data is received, the storage section to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein, and for causing the repetitive read out and display of the image data of one frame last temporarily stored in said one-frame storage section,

wherein said image data is received on a first channel of a predetermined transmission line and said instruction is received on a second channel of said transmission line.

25. (Currently Amended) A computer-readable recording medium on which a program ~~to be~~ executed by a computer is recorded, the program comprising:

a reception step of receiving successive frames of played back image data transmitted thereto from a transmission apparatus through a predetermined network;

a storage step of temporarily storing one frame of the successive frames of the played back image data received by the reception step into a ~~one-frame~~ storage section having a storage capacity of one frame of image data, the stored frame being replaced by a following frame of the successive frames that are received such that the frame stored in said storage section is updated with new successive frames that are received by said reception step;

a display step of displaying the received and temporarily stored image data;

a transmission step of transmitting, when an instruction to temporarily stop the playback of the image data is received, a message representing the reception of the instruction to said transmission apparatus through said network; and

a display control step of causing, when the instruction to temporarily stop the playback of the image data is received, the storage section to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein, and for causing the repetitive read out and display of the image data temporarily of one frame last stored in said one-frame storage section,

wherein said image data is received on a first channel of a predetermined transmission line and said instruction is received on a second channel of said transmission line.

26. (Currently Amended) An image processing apparatus, comprising:

a transmission apparatus for playing back successive frames of image data and transmitting the successive frames of image data through a predetermined network; and

a reception apparatus for receiving the successive frames of image data transmitted thereto from said transmission apparatus through said network;

said transmission apparatus including a playback section for playing back image data, a transmission section for transmitting successive frames of the played back image data to said reception apparatus through said predetermined network, and a control section for controlling, when a message representing that an instruction to temporarily stop the playback of the image data is issued through said network, said transmission section to stop the transmission of the image data,

wherein the control section establishes a first channel on a predetermined transmission line for transmission of said image data and a second channel on said transmission line for transmission of said message;

 said reception apparatus including a reception section for receiving the successive frames of played back image data transmitted thereto from said transmission apparatus through said predetermined network, a ~~one~~-frame-storage section having a storage capacity of one frame of image data for temporarily storing one frame of the successive frames of the played back image data received by said reception section, the stored frame being replaced by a following frame of the successive frames that are received such that the frame stored in said storage section is updated with new successive frames that are received by said reception section, a display section for displaying the image data received by said reception section, a transmission section for transmitting, when an instruction to temporarily stop the playback of the image data is received, a message representing the reception of the instruction to said transmission apparatus through said network, and a display control section for controlling, when the instruction to temporarily stop the playback of the image data is received, the storage section such that said storage section stores only one frame of the successive frames while playback of the image data is temporarily stopped and no longer updates the frame stored therein, and for controlling said display apparatus-section to repetitively read out and display the image data of one frame last temporarily stored in said one-frame-storage section.

27. (Currently Amended) An audio/video processing apparatus connected to a network, comprising:

a reception section operable to receive successive frames of played back audio/video contents transmitted on a predetermined transmission line thereto from a transmission apparatus through a network;

a one frame storage section having a storage capacity of one frame of image data for temporarily storing one frame of the successive frames of the played back audio/video contents received by said reception section, the stored frame being replaced by a following frame of the successive frames that are received such that the frame stored in said storage section is updated with new successive frames that are received;

a playback apparatus to play back the audio/video contents temporarily stored in said storage section; and

a control section operable to control said playback apparatus to play back said audio/video contents received by said reception section and to control, when a message representing that playback of the audio/video contents is temporarily stopped is received through said transmission line, said storage section to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein, and to control said playback apparatus to repetitively play back and display the audio/video contents of one frame last stored in said one-frame storage section,

wherein said image data is received on a first channel of said transmission line and said message is received on a second channel of said transmission line.

28. (Currently Amended) An audio/video processing apparatus connected to a network, comprising:

a reception section operable to receive successive frames of played back audio/video contents transmitted thereto from a transmission apparatus through a network;

a one-frame storage section having a storage capacity of one frame of image data for temporarily storing one frame of the successive frames of the played back audio/video contents received by said reception, the stored frame being replaced by a following frame of the successive frames that are received such that the frame stored in said storage section is updated with new successive frames that are received;

a playback apparatus to play back the audio/video contents temporarily stored in said storage section; and

a control section operable to control said playback apparatus to play back said audio/video contents received by said reception section and to control, when a message representing a pause mode is received through a transmission line, said storage section to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored therein, and to control said playback apparatus to repetitively play back and display the one frame of audio/video contents last stored in said one-frame storage section based on the message representing a pause mode,

wherein said image data and said message are received through different channels on said transmission line.

29. (Previously Presented) The audio/video processing apparatus according to claim 28,

wherein said image data and said message are separately sent through said transmission line.

30. (Previously Presented) The audio/video processing apparatus according to claim 29,

wherein said control section establishes a first channel for transmission of said image data and a second channel for transmission of said message.

31. (Currently Amended) An audio/video processing method, comprising:

a reception step of receiving successive frames of played back audio/video contents transmitted thereto from a transmission apparatus through a network;

a storage step of temporarily storing one frame of the successive frames of the played back audio/video contents received by said reception step into a ~~one frame~~ storage section having a storage capacity of one frame of video content, the stored frame being replaced by a following frame of the successive frames that are received such that the frame stored in said storage section is updated with new successive frames that are received;

a playback step of playing back the temporarily stored audio/video contents; and

a control step of controlling the playing back of the audio/video contents received in said reception step and controlling, when a message representing a pause mode is received through a transmission line, said storage step to store only one frame of the successive frames while playback of the image data is temporarily stopped and no longer update the frame stored in said storage section, and controlling said playback step to repetitively play back and display the one frame of audio/video contents last temporarily stored in said one-frame storage section based on the message representing a pause mode,

wherein said image data and said message are received through different channels of said transmission line.

32. (Previously Presented) The audio/video processing method according to claim 31, wherein said image data and said message are separately sent through said transmission line.

33. (Previously Presented) The audio/video processing method according to claim 32,

wherein said control step establishes a first channel for transmission of said image data and a second channel for transmission of said message.